

STREET STRUCTURAL SECTION

DESIGN REQUIREMENTS FOR PRIVATE AND PUBLIC STREETS

STREET STRUCTURAL SECTIONS SHALL BE DETERMINED BY USING THE CALTRANS METHOD PUBLISHED IN CHAPTER 6 OF THE HIGHWAY DESIGN MANUAL (APPLYING THE FACTOR OF SAFETY (F.S.) TO THE ASPHALT CONCRETE (A.C.) LAYER FOR ALL TRAFFIC INDICES) AND COMPARED AGAINST THE MINIMUM STRUCTURAL SECTION REQUIRED BY THE CITY (SHOWN BELOW). THE MORE STRINGENT REQUIREMENT SHALL APPLY. UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER, ALL STREET SECTIONS SHOWN ON THE IMPROVEMENT PLANS ARE TENTATIVE. SOILS TEST SHALL BE TAKEN AFTER ROUGH GRADING TO DETERMINE THE R-VALUE TO USE IN THE CALCULATION. THE CITY WILL SUPPLY THE TRAFFIC INDEX (T.I.) TO USE. ALL PROPOSED STRUCTURAL SECTIONS (WITH BACK-UP MATERIAL USED IN CALCULATIONS) SHALL BE SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL.

THE FOLLOWING ARE THE CITY'S MINIMUM REQUIREMENTS TO USE IN DETERMINATION OF THE STREET STRUCTURAL SECTION:

STREET CLASSIFICATION	MIN. T.I.	MIN. A.C.	MIN. CI 2 AB	AC LAYER THICKNESSES (TOP/MIDDLE/BOTTOM)
ALLEY	5.5	4.0"	4.0"	1.5" / 2.5"
RESIDENTIAL (PRIVATE)	5.5	4.0"	4.0"	1.5" / 2.5"
COLLECTOR	7.0	4.0"	6.0"	1.5" / 2.5"
SECONDARY	7.5	5.0"	8.0"	2.0" / 3.0"
ARTERIAL	9.0	6.0"	12.0"	1.5" / 2.0" / 2.5"
WIDENED ARTERIAL	9.5	6.0"	14.0"	1.5" / 2.0" / 2.5"

NOTES:

- FIRST NUMBER SHOWN UNDER AC LAYER THICKNESS COLUMN IS THE SURFACE LAYER.
- MAXIMUM A.C. LAYER THICKNESS MAY NOT EXCEED 3.0-INCHES.
- ALL A.C. SECTIONS GREATER THAN 5" SHALL BE PLACED IN AT LEAST THREE (3) LIFTS.
- BASE: BASE MATERIAL SHALL CONFORM TO CLASS 2 AGGREGATE BASE (AB) SPECIFICATIONS PER SECTION 26 OF CALTRANS STANDARDS SPECIFICATIONS, LATEST EDITION.
- A.C. LAYERS: ASPHALT CONCRETE (A.C.) SHALL CONFORM TO SECTION 39 OF CALTRANS STANDARD SPECIFICATIONS, LATEST EDITION. ALL BASE LAYER(S) OF A.C. SHALL CONFORM TO THE GRADING FOR 3/4-INCH MAXIMUM, MEDIUM MATERIAL; AND THE SURFACE A.C. LAYER SHALL CONFORM TO THE GRADING FOR 1/2-INCH MAXIMUM, MEDIUM MATERIAL. BITUMINOUS BINDER TO BE MIXED WITH THE MINERAL AGGREGATE SHALL BE STEM REFINED PAVING ASPHALT, PERFORMANCE GRADE (PG) ASPHALT BINDER PG 70-10 CONFORMING TO SECTION 92 OF THE CALTRANS' STANDARD SPECIFICATIONS, LATEST EDITION.
- THE STRUCTURAL SECTION FOR A PARKING LOT, PRIVATE OR PUBLIC, SHALL BE A MINIMUM OF 4" OF ASPHALT CONCRETE OVER 4" OF CLASS 2 AGGREGATE BASE.

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Juan Raya 05/18/16
DATE

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RCE 68510

REV.	DRAWN BY:	APP'D:	DATE:



**STREET STRUCTURAL
SECTION DESIGN
REQUIREMENTS**

STANDARD PLAN No.: **171**

MAY 2016